

1 Fwo

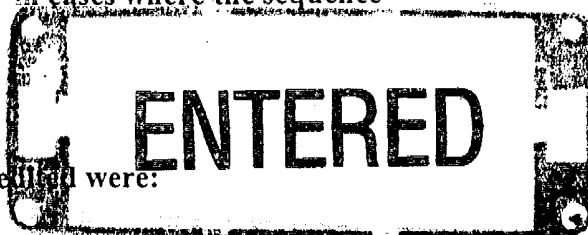
**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/776,211

CRF Edit Date: 8/19/04  
Edited by: AS

\_\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:



\_\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_ Deleted: \_\_\_\_ invalid beginning/end-of-file text ; \_\_\_\_ page numbers

\_\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_ Other:



IFWO

## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:55:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08192004\J776211.raw

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3 <110> APPLICANT: Karolinska Innovations AB
--> 4 <120> TITLE OF INVENTION: New method
--> 5 <130> FILE REFERENCE: 50400
--> 6 <140> CURRENT APPLICATION NUMBER: US/10/776,211
--> 6 <141> CURRENT FILING DATE: 2004-02-12
--> 6 <160> NUMBER OF SEQ ID: 7
7 <170> SOFTWARE: PatentIn version 3.1
--> 8 <210> SEQ ID NO: 1
9 <211> LENGTH: 1470
10 <212> TYPE: DNA
11 <213> ORGANISM: Homo sapiens
--> 12 <220> FEATURE:
13 <221> NAME/KEY: gene
14 <222> LOCATION: (1)..(1470)
15 <223> OTHER INFORMATION: ADH1C sequence with mutation at position 303
--> 16 <400> SEQUENCE: 1
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18 acagaatcaa tatgagcaca gcaggaaaag taatcaaattg caaagcagct gtgctatggg 120
19 agttaaagaa accctttttcc attgaggagg tagagggttc acctcctaag gctcatgaag 180
20 ttgcatttaa gatggtggct gcaggaatct gtggttcaga tgagcatgtg gttagtggca 240
21 acctggtgac ccccttctct gtgatttttag gccatgaggc agccggcatc gtggaaagtg 300
22 ttgagaagg ggtgactaca gtcaaaccag gtgataaagt catcccgctc tttactcctc 360
23 agtgtggaaa atgcagaatt tgtaaaaacc cagaaagcaa ctactgcttg aaaaatgac 420
24 taggcaatcc tcggggggacc ctgcaggatg gcaccaggag gttcacctgc agcgggaagc 480
25 ccattccacca ctctgctggc gtcagcacct tctcccagta cacagtgggtg gatgagaatg 540
26 cagtggccaa aattgatgca gcctcgcccc tggagaaagt ctgcctcatt ggctgtggat 600
27 ttctgactgg ttatgggtct gcagtcaaag ttgccaaagt caccacaggg tctacctgtg 660
28 ctgtgtttgg cctgggagggt gtgcgcctat ctgttgttat gggctgtaaa gcagctggag 720
29 cagccagaat cattgctgtg gacatcaaca aggacaaatt tgcaaaggct aaagagttgg 780
30 gggccactga atgcataaac cctcaagact acaagaaacc cattcaggaa gtgctaaagg 840
31 aaatgactga tggagggtgtg gatttttctg ttgaagtcat cggctcggctt gacaccatga 900
32 tggcttcctt gttatgttgt catgaggcat gtggcacaag tgtcattgta ggggtacctc 960
33 ctgattccca gaacctctca ataaacccta tgctgctact gactggacgc acgtggaaaag 1020
34 gagctatttt tggaggcttt aagagtaaag aatctgtccc gaaacttgtg gctgacttta 1080
35 tggctaagaa gttttcactg gatgcattaa taacaaatat ttacctttt gaaaaataa 1140
36 atgaaggatt tgacctgctt cgtctctggaa agagtatccg taccgtcctg acgttttgaa 1200
37 acaatacaga tgccttccct tgtagcagtt ttcagcctcc tctacctac atgatctgga 1260
38 gcaacagcta ggaaatatca ttaattctgc tcttcagaga tgttaaaaat aaattacacg 1320
39 tgggagcttt ccaaagaaat ggaaattgat gggaaattat ttgtcaagca aatgttttaa 1380
40 atccaaatga gaactaaata aagtgttgaa catcaactgg ggaattgaag ccaataaacc 1440
41 ttccttctta accattcaaa aaaaaaaaaa
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 1470

```

## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:55:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08192004\J776211.raw

46 &lt;212&gt; TYPE: DNA

47 &lt;213&gt; ORGANISM: Homo sapiens

## &gt; 48 &lt;220&gt; FEATURE:

49 &lt;221&gt; NAME/KEY: gene

50 &lt;222&gt; LOCATION: (1)..(1470)

51 &lt;223&gt; OTHER INFORMATION: ADH1C wildtype sequence

## &gt; 52 &lt;400&gt; SEQUENCE: 2

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53 atgcactcaa gcagagaaga aatccacaag tactcaccag cctcctgggc tgcagagaag 60
54 acagaatcaa tatgagcaca gcaggaaaag taatcaaagt caaagcagct gtgctatggg 120
55 agttaaagaa acccttttcc attgaggagg tagagggtgc acctcctaag gctcatgaag 180
56 ttgcatttaa gatggtggct gcaggaaatc gtcggtcaga tgagcatgtg gttagtggca 240
57 acctggtgac ccccttctct gtgattttag gccatgaggc agccggcctc gtggaaagtg 300
58 ttggagaagg ggtgactaca gtcaaaccag gtgataaagt catcccgtc tttactctc 360
59 agtgtggaaa atgcagaatt tgtaaaaacc cagaaagcaa ctactgcttg aaaaatgatc 420
60 taggcaatcc tcggggggacc ctgcaggatg gcaccaggag gttcacctgc agcgggaagc 480
61 ccatccacca cttcgtcggc gtcagcacct tctcccagta cacagtgggt gatgagaatg 540
62 cagtggccaa aattgatgca gcctcgcccc tggagaaagt ctgcctcatt ggctgtggat 600
63 tttcgactgg ttatgggtct gcagtcaaag ttgccaaggc caccctcagg tctacctgtg 660
64 ctgtgtttgg cctgggaggg gtccggcctat ctgttgttat gggtgtgtaa gcagctggag 720
65 cagccagaat cattgctgtg gacatcaaca aggacaaatt tgcaaaggct aaagagttgg 780
66 gggccactga atgcataaac cctcaagact acaagaaacc cattcaggaa gtgctaaagg 840
67 aaatgactga tggaggtgtg gatttttctg ttgaagtcac cggctcggctt gacaccatga 900
68 tggcttccct gttatgttgt catgaggcat gtggcacaag tgcattgta ggggtacctc 960
69 ctgattccca gaacctctca ataaacccta tgctgtact gactggacgc acgtggaaag 1020
70 gagctatttt tggaggcttt aagagtaaag aatctgtccc gaaacttgtg gctgacttta 1080
71 tggctaagaa gttttcactg gatgcattaa taacaaatat tttacctttt gaaaaataaa 1140
72 atgaaggatt tgacctgctt cgctctggaa agagtatccg taccgtcctg acgttttgaa 1200
73 acaatacaga tgccttccct ttagcagtt ttcagcctcc tctacctac atgatctgga 1260
74 gcaacagcta ggaaatatca ttaattctgc tcttcagaga tgtaaaaaat aaattacacg 1320
75 tgggagcttt ccaaagaaat ggaattgat gggaaattat ttgtcaagca aatgtttaaa 1380
76 atccaaatga gaactaaata aagtgttgaa catcaactgg ggaattgaag ccaataaacc 1440
77 ttcctttctta accattcaaa aaaaaaaaaa

```

80 &lt;210&gt; SEQ ID NO: 3

81 &lt;211&gt; LENGTH: 20

82 &lt;212&gt; TYPE: DNA

83 &lt;213&gt; ORGANISM: Artificial

## &gt; 84 &lt;220&gt; FEATURE:

85 &lt;221&gt; NAME/KEY: misc\_feature

86 &lt;222&gt; LOCATION: (1)..(20)

87 &lt;223&gt; OTHER INFORMATION: reverse primer

## &gt; 88 &lt;400&gt; SEQUENCE: 3

89 tcctgtacct ggtttgactg 20

92 &lt;210&gt; SEQ ID NO: 4

93 &lt;211&gt; LENGTH: 20

94 &lt;212&gt; TYPE: DNA

95 &lt;213&gt; ORGANISM: Artificial

## &gt; 96 &lt;220&gt; FEATURE:

97 &lt;221&gt; NAME/KEY: misc\_feature

98 &lt;222&gt; LOCATION: (1)..(20)

## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:55:52

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08192004\J776211.raw

```

99 <223> OTHER INFORMATION: forward primer
7--> 100 <400> SEQUENCE: 4
101 ctgtgatttt aggccatgag 20
104 <210> SEQ ID NO: 5
105 <211> LENGTH: 15
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial
7--> 108 <220> FEATURE:
109 <221> NAME/KEY: misc_feature
110 <222> LOCATION: (1)..(15)
111 <223> OTHER INFORMATION: sequencing primer
7--> 112 <400> SEQUENCE: 5
113 atcgtggaaa gtgtt 15
116 <210> SEQ ID NO: 6
117 <211> LENGTH: 26
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial
7--> 120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (1)..(26)
123 <223> OTHER INFORMATION: forward primer
7--> 124 <400> SEQUENCE: 6
125 ttttagaaaa ttgggtttgt taagtc 26
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 21
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial
7--> 132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (1)..(21)
135 <223> OTHER INFORMATION: reverse primer
7--> 136 <400> SEQUENCE: 7
137 ccttgtgcaa gtcctttcgt c 21

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**RAW SEQUENCE LISTING ERROR SUMMARY**

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:55:53

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08192004\J776211.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#: 3, 4, 5, 6, 7

**VERIFICATION SUMMARY**

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:55:53

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08192004\J776211.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier  
L:5 M:283 W: Missing Blank Line separator, <130> field identifier  
L:6 M:270 C: Current Application Number differs, Replaced Current Application No  
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:6 M:283 W: Missing Blank Line separator, <160> field identifier  
L:8 M:283 W: Missing Blank Line separator, <210> field identifier  
L:12 M:283 W: Missing Blank Line separator, <220> field identifier  
L:16 M:283 W: Missing Blank Line separator, <400> field identifier  
L:48 M:283 W: Missing Blank Line separator, <220> field identifier  
L:52 M:283 W: Missing Blank Line separator, <400> field identifier  
L:84 M:283 W: Missing Blank Line separator, <220> field identifier  
L:88 M:283 W: Missing Blank Line separator, <400> field identifier  
L:96 M:283 W: Missing Blank Line separator, <220> field identifier  
L:100 M:283 W: Missing Blank Line separator, <400> field identifier  
L:108 M:283 W: Missing Blank Line separator, <220> field identifier  
L:112 M:283 W: Missing Blank Line separator, <400> field identifier  
L:120 M:283 W: Missing Blank Line separator, <220> field identifier  
L:124 M:283 W: Missing Blank Line separator, <400> field identifier  
L:132 M:283 W: Missing Blank Line separator, <220> field identifier  
L:136 M:283 W: Missing Blank Line separator, <400> field identifier



IFWO

## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:33:10

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08192004\J776211.raw

3 <110> APPLICANT: Karolinska Innovations AB  
 > 4 <120> TITLE OF INVENTION: New method  
 > 5 <130> FILE REFERENCE: 50400  
 > 6 <140> CURRENT APPLICATION NUMBER: US/10/776,211  
 > 6 <141> CURRENT FILING DATE: 2004-02-12  
 > 6 <160> NUMBER OF SEQ ID: 7  
 7 <170> SOFTWARE: PatentIn version 3.1

## CORED SEQUENCES

> 8 <210> SEQ ID NO: 1  
 9 <211> LENGTH: 1470  
 10 <212> TYPE: DNA  
 11 <213> ORGANISM: Homo sapiens  
 > 12 <220> FEATURE:  
 13 <221> NAME/KEY: gene  
 14 <222> LOCATION: (1)..(1470)  
 15 <223> OTHER INFORMATION: ADH1C sequence with mutation at position 303  
 > 16 <400> SEQUENCE: 1  
 > 17 atgcactcaa gcagagaaga aatccacaag tactcaccag cctcctggtc tgcagagaag  
 18 60  
 > 19 acagaatcaa tatgagcaca gcaggaaaag taatcaaagc caaagcagct gtgctatggg  
 20 120  
 > 21 agttaaagaa acccttttcc attgaggagg tagagggtgc acctcctaag gtcctatgaag  
 22 180  
 > 23 ttgcattaa gatggtggct gcaggaatct gtcgttcaga tgagcatgtg gttagtggca  
 24 240  
 > 25 acctggtgac ccccttccct gtgatttttag gccatgaggc agccggcacc gtggaaagtg  
 26 300  
 > 27 ttgagaagg ggtgactaca gtcaaaccag gtgataaagt catcccgtc tttactcctc  
 28 360  
 > 29 agtgtggaaa atgcagaatt tgtaaaaacc cagaaagcaa ctactgcttg aaaaatgac  
 30 420  
 > 31 taggcaatcc tcgggggacc ctgcaggatg gcaccaggag gttcacctgc agcggaagc  
 32 480  
 > 33 ccaccacca cttcgtcggc gtcagcacct tctcccagta cacagtggg gatgagaatg  
 34 540  
 > 35 cagtggccaa aattgatgca gcctcgcccc tggagaaagt ctgcctcatt ggctgtggat  
 36 600  
 > 37 ttctgactgg ttatgggtct gcagtcaaag ttgccaaggt caccacagg tctacctgtg  
 38 660  
 > 39 ctgtgttttg cctgggaggg gtggcctat ctgtttgtat gggctgtaa gcagctggag

Does Not Comply  
 Corrected Diskette Needed

60 format  
 120 error  
 ↓

## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:33:10

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08192004\J776211.raw

40 720  
> 41 cagccagaat cattgctgtg gacatcaaca aggacaaatt tgcaaaggct aaagagttgg  
42 780  
> 43 gggccactga atgcatcaac cctcaagact acaagaaacc cattcaggaa gtgctaaagg  
44 840  
> 45 aaatgactga tggaggtgtg gatttttctg ttgaagtcac cggtcggctt gacaccatga  
46 900  
> 47 tggcttcctt gttatgttgt catgaggcat gtggcacaag tgtcattgta ggggtacctc  
48 960  
> 49 ctgattccca gaacctctca ataaacctta tgctgctact gactggacgc acgtggaaag  
50 1020  
> 51 gagctatctt tggaggcttt aagagtaaag aatctgtccc gaaacttgtg gctgacttta  
52 1080  
> 53 tggctaagaa gttttcactg gatgcattaa taacaaatat ttacctttt gaaaaataa  
54 1140  
> 55 atgaaggatt tgacctgctt cgtctctgga agagtatccg taccgtcctg acgttttgaa  
56 1200  
> 57 acaatacaga tgccttcctt tgtagcagtt ttcagcctcc tctaccctac atgatctgga  
58 1260  
> 59 gcaacagcta ggaaatatca ttaattctgc tcttcagaga tgttaaaaat aaattacacg  
60 1320  
> 61 tgggagcttt ccaaagaaat ggaaattgat gggaaattat ttgtcaagca aatgttttaa  
62 1380  
> 63 atccaaatga gaactaaata aagtgttgaa catcaactgg ggaattgaag ccaataaacc  
64 1440  
> 65 ttccttctta accattcaaa aaaaaaaaaa  
66 1470  
69 <210> SEQ ID NO: 2  
70 <211> LENGTH: 1470  
71 <212> TYPE: DNA  
72 <213> ORGANISM: Homo sapiens  
> 73 <220> FEATURE:  
74 <221> NAME/KEY: gene  
75 <222> LOCATION: (1)..(1470)  
76 <223> OTHER INFORMATION: ADH1C wildtype sequence  
> 77 <400> SEQUENCE: 2  
> 78 atgcactcaa gcagagaaga aatccacaag tactcaccag cctcctggtc tgcagagaag  
79 60  
> 80 acagaatcaa tatgagcaca gcaggaaaag taatcaaagc caaagcagct gtgctatggg  
81 120  
> 82 agttaaagaa acccttttcc attgaggagg tagagggtgc acctcctaag gctcatgaag  
83 180  
> 84 ttcgcattaa gatggtggct gcaggaatct gtcgttcaga tgagcatgtg gttagtggca  
85 240  
> 86 acctggtgac ccccttcctt gtgatttttag gccatgaggg agccggcatc gtggaaagtg  
87 300  
> 88 ttggagaagg ggtgactaca gtcaaaccag gtgataaagt catcccgtc tttactcctc  
89 360  
> 90 agtgtggaaa atgcagaatt tgtaaaaacc cagaaagcaa ctactgcttg aaaaatgatc

*same  
env**same*



## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:33:10

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08192004\J776211.raw

91 420  
> 92 taggcaatcc tcgggggacc ctgcaggatg gcaccaggag gttcacctgc agcgggaagc  
93 480  
> 94 ccattccacca ctctcgtcggc gtcagcacct tctcccagta cacagtgggtg gatgagaatg  
95 540  
> 96 cagtggccaa aattgatgca gcctcgcccc tggagaaagt ctgcctcatt ggctgtggat  
97 600  
> 98 ttctgactgg ttatgggtct gcagtcaaag ttgccaaggt caccacaggg tctacctgtg  
99 660  
> 100 ctgtgttttg cctgggaggg gtcggcctat ctgttggttat gggctgtaaa gcagctggag  
101 720  
> 102 cagccagaat cattgctgtg gacatcaaca aggacaaatt tgcaaaggct aaagagttgg  
103 780  
> 104 gggccactga atgcatcaac cctcaagact acaagaaacc cattcaggaa gtgctaaagg  
105 840  
> 106 aaatgactga tggaggtgtg gatttttcgt ttgaagtcac cggtcggctt gacaccatga  
107 900  
> 108 tggtttccct gttatgttgt catgaggcat gtggcacaag tgtcattgta ggggtacctc  
109 960  
> 110 ctgattccca gaacctctca ataaacccta tgctgtctact gactggacgc acgtggaaaag  
111 1020  
> 112 gagctatttt tggaggcttt aagagtaaag aatctgtccc gaaacttgtg gctgacttta  
113 1080  
> 114 tggctaagaa gttttcactg gatgcattaa taacaaatat ttacctttt gaaaaataa  
115 1140  
> 116 atgaaggatt tgacctgctt cgctctggaa agagtatccg taccgtcctg acgttttgaa  
117 1200  
> 118 acaatacaga tgccttccct tgtagcagtt ttcagcctcc tctacctac atgatctgga  
119 1260  
> 120 gcaacagcta ggaaatatca ttaattctgc tcttcagaga tgtaaaaaat aaattacacg  
121 1320  
> 122 tgggagcttt ccaaagaaat ggaaattgat gggaaattat ttgtcaagca aatgttttaa  
123 1380  
> 124 atccaaatga gaactaaata aagtgttgaa catcaactgg ggaattgaag ccaataaacc  
125 1440  
> 126 ttcctttctta accattcaaa aaaaaaaaaa  
127 1470  
130 <210> SEQ ID NO: 3  
131 <211> LENGTH: 20  
132 <212> TYPE: DNA  
133 <213> ORGANISM: Artificial  
> 134 <220> FEATURE:  
135 <221> NAME/KEY: misc\_feature  
136 <222> LOCATION: (1)..(20)  
137 <223> OTHER INFORMATION: reverse primer  
> 138 <400> SEQUENCE: 3  
> 139 tcctgtacct ggtttgactg  
140 20  
143 <210> SEQ ID NO: 4

## RAW SEQUENCE LISTING

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:33:10

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08192004\J776211.raw

144 <211> LENGTH: 20  
145 <212> TYPE: DNA  
146 <213> ORGANISM: Artificial  
> 147 <220> FEATURE:  
148 <221> NAME/KEY: misc\_feature  
149 <222> LOCATION: (1)..(20)  
150 <223> OTHER INFORMATION: forward primer  
> 151 <400> SEQUENCE: 4  
> 152 ctgtgatttt aggccatgag  
153 20  
156 <210> SEQ ID NO: 5  
157 <211> LENGTH: 15  
158 <212> TYPE: DNA  
159 <213> ORGANISM: Artificial  
> 160 <220> FEATURE:  
161 <221> NAME/KEY: misc\_feature  
162 <222> LOCATION: (1)..(15)  
163 <223> OTHER INFORMATION: sequencing primer  
> 164 <400> SEQUENCE: 5  
> 165 atcgtggaaa gtgtt  
166 15  
169 <210> SEQ ID NO: 6  
170 <211> LENGTH: 26  
171 <212> TYPE: DNA  
172 <213> ORGANISM: Artificial  
> 173 <220> FEATURE:  
174 <221> NAME/KEY: misc\_feature  
175 <222> LOCATION: (1)..(26)  
176 <223> OTHER INFORMATION: forward primer  
> 177 <400> SEQUENCE: 6  
> 178 ttttagaaaa ttgggtttgt taagtc  
179 26  
182 <210> SEQ ID NO: 7  
183 <211> LENGTH: 21  
184 <212> TYPE: DNA  
185 <213> ORGANISM: Artificial  
> 186 <220> FEATURE:  
187 <221> NAME/KEY: misc\_feature  
188 <222> LOCATION: (1)..(21)  
189 <223> OTHER INFORMATION: reverse primer  
> 190 <400> SEQUENCE: 7  
> 191 ccttgtgcaa gtcctttcgt c  
192 21

*same**same**same**same*

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/19/2004  
PATENT APPLICATION:    US/10/776,211      TIME: 14:33:11

Input Set : A:\PTO.DA.txt  
Output Set: N:\CRF4\08192004\J776211.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7

## VERIFICATION SUMMARY

DATE: 08/19/2004

PATENT APPLICATION: US/10/776,211

TIME: 14:33:11

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08192004\J776211.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier  
L:5 M:283 W: Missing Blank Line separator, <130> field identifier  
L:6 M:270 C: Current Application Number differs, Replaced Current Application No  
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:6 M:283 W: Missing Blank Line separator, <160> field identifier  
L:8 M:283 W: Missing Blank Line separator, <210> field identifier  
L:12 M:283 W: Missing Blank Line separator, <220> field identifier  
L:16 M:283 W: Missing Blank Line separator, <400> field identifier  
L:17 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:1  
M:254 Repeated in SeqNo=1  
L:73 M:283 W: Missing Blank Line separator, <220> field identifier  
L:77 M:283 W: Missing Blank Line separator, <400> field identifier  
L:78 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2  
M:254 Repeated in SeqNo=2  
L:134 M:283 W: Missing Blank Line separator, <220> field identifier  
L:138 M:283 W: Missing Blank Line separator, <400> field identifier  
L:139 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:20 SEQ:3  
L:147 M:283 W: Missing Blank Line separator, <220> field identifier  
L:151 M:283 W: Missing Blank Line separator, <400> field identifier  
L:152 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:20 SEQ:4  
L:160 M:283 W: Missing Blank Line separator, <220> field identifier  
L:164 M:283 W: Missing Blank Line separator, <400> field identifier  
L:165 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:15 SEQ:5  
L:173 M:283 W: Missing Blank Line separator, <220> field identifier  
L:177 M:283 W: Missing Blank Line separator, <400> field identifier  
L:178 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:26 SEQ:6  
L:186 M:283 W: Missing Blank Line separator, <220> field identifier  
L:190 M:283 W: Missing Blank Line separator, <400> field identifier  
L:191 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:21 SEQ:7